

**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551A**

DATE: 10/26/2001
TIME: 08:35:18

INPUT SET: S36649.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:35:18

INPUT SET: S36649.raw

47 (A) APPLICATION NUMBER: 08/087,009
48 (B) FILING DATE: 01-JUL-1993
49
50 (xi) ATTORNEY/AGENT INFORMATION:
51 (A) NAME: Lauro, Peter C.
52 (B) REGISTRATION NUMBER: 32,360
53 (C) REFERENCE/DOCKET NUMBER: UAI-004CPDV2CN
54
55 (xii) TELECOMMUNICATION INFORMATION:
56 (A) TELEPHONE: (617) 227-7400
57 (B) TELEFAX: (617) 742-4214
58
59
60 (2) INFORMATION FOR SEQ ID NO:1:
61
62 (i) SEQUENCE CHARACTERISTICS:
63 (A) LENGTH: 14 base pairs
64 (B) TYPE: nucleic acid
65 (C) STRANDEDNESS: single
66 (D) TOPOLOGY: linear
67
68 (ii) MOLECULE TYPE: cDNA
69
70
71
72 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
73
74 TATTAGTAGA TCTG 14
75
76 (2) INFORMATION FOR SEQ ID NO:2:
77
78 (i) SEQUENCE CHARACTERISTICS:
79 (A) LENGTH: 14 base pairs
80 (B) TYPE: nucleic acid
81 (C) STRANDEDNESS: single
82 (D) TOPOLOGY: linear
83
84 (ii) MOLECULE TYPE: cDNA
85
86
87
88 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
89
90 TACAGATGTA CCAA 14
91
92 (2) INFORMATION FOR SEQ ID NO:3:
93
94 (i) SEQUENCE CHARACTERISTICS:
95 (A) LENGTH: 845 base pairs
96 (B) TYPE: nucleic acid
97 (C) STRANDEDNESS: single
98 (D) TOPOLOGY: linear
99

RAW SEQUENCE LISTING
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100 (ii) MOLECULE TYPE: cDNA
 101
 102
 103 (ix) FEATURE:
 104 (A) NAME/KEY: CDS
 105 (B) LOCATION: 20..845
 106
 107
 108 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
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 110 ACACAGCAAT CAGGTCAGC CAA AAT TAC CCT ATA GTG CAG AAC ATC CAG GGG 52
 111 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly
 112 1 5 10
 113
 114 CAA ATG GTA CAT CAG GCC ATA TCA CCT AGA ACT TTA AAT GCA TGG GTA 100
 115 Gln Met Val His Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val
 116 15 20 25
 117
 118 AAA GTA GTA GAA GAG AAG GCT TTC AGC CCA GAA GTG ATA CCC ATG TTT 148
 119 Lys Val Val Glu Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe
 120 30 35 40
 121
 122 TCA GCA TTA TCA GAA GGA GCC ACC CCA CAA GAT TTA AAC ACC ATG CTA 196
 123 Ser Ala Leu Ser Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu
 124 45 50 55
 125
 126 AAC ACA GTG GGG GGA CAT CAA GCA GCC ATG CAA ATG TTA AAA GAG ACC 244
 127 Asn Thr Val Gly Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr
 128 60 65 70 75
 129
 130 ATC AAT GAG GAA GCT GCA GAA TGG GAT AGA GTG CAT CCA GTG CAT GCA 292
 131 Ile Asn Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala
 132 80 85 90
 133
 134 GGG CCT ATT GCA CCA GGC CAG ATG AGA GAA CCA AGG GGA AGT GAC ATA 340
 135 Gly Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile
 136 95 100 105
 137
 138 GCA GGA ACT ACT AGT ACC CTT CAG GAA CAA ATA GGA TGG ATG ACA AAT 388
 139 Ala Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn
 140 110 115 120
 141
 142 AAT CCA CCT ATC CCA GTA GGA GAA ATT TAT AAA AGA TGG ATA ATC CTG 436
 143 Asn Pro Pro Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu
 144 125 130 135
 145
 146 GGA TTA AAT AAA ATA GTA AGA ATG TAT AGC CCT ACC AGC ATT CTG GAC 484
 147 Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp
 148 140 145 150 155
 149
 150 ATA AGA CAA GGA CCA AAG GAA CCC TTT AGA GAC TAT GTA GAC CGG TTC 532
 151 Ile Arg Gln Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe
 152 160 165 170

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
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153
 154 TAT AAA ACT CTA AGA GCC GAG CAA GCT TCA CAG GAG GTA AAA AAT TGG 580
 155 Tyr Lys Thr Leu Arg Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp
 156 175 180 185
 157
 158 ATG ACA GAA ACC TTG TTG GTC CAA AAT GCG AAC CCA GAT TGT AAG ACT 628
 159 Met Thr Glu Thr Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr
 160 190 195 200
 161
 162 ATT TTA AAA GCA TTG GGA CCA GCG GCT ACA CTA GAA GAA ATG ATG ACA 676
 163 Ile Leu Lys Ala Leu Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr
 164 205 210 215
 165
 166 GCA TGT CAG GGA GTA GGA GGA CCC GGC CAT AAG GCA AGA GTT TTG GCT 724
 167 Ala Cys Gln Gly Val Gly Pro Gly His Lys Ala Arg Val Leu Ala
 168 220 225 230 235
 169
 170 GAA GCA ATG AGC CAA GTA ACA AAT TCA GCT ACC ATA ATG ATG CAG AGA 772
 171 Glu Ala Met Ser Gln Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg
 172 240 245 250
 173
 174 GGC AAT TTT AGG AAC CAA AGA AAG ATT GTT AAG TGT TTC AAT TGT GGC 820
 175 Gly Asn Phe Arg Asn Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly
 176 255 260 265
 177
 178 AAA GAA GGG CAC ACA GCC AGA AAG T 845
 179 Lys Glu Gly His Thr Ala Arg Lys
 180 270 275
 181
 182
 183 (2) INFORMATION FOR SEQ ID NO:4:
 184
 185 (i) SEQUENCE CHARACTERISTICS:
 186 (A) LENGTH: 275 amino acids
 187 (B) TYPE: amino acid
 188 (D) TOPOLOGY: linear
 189
 190 (ii) MOLECULE TYPE: protein
 191
 192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
 193
 194 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His Gln
 195 1 5 10 15
 196
 197 Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu Glu
 198 20 25 30
 199
 200 Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu
 201 35 40 45
 202
 203 Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly
 204 50 55 60
 205

RAW SEQUENCE LISTING
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206 His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala
207 65 70 75 80
208
209 Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala Pro
210 85 90 95
211
212 Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser
213 100 105 110
214
215 Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro
216 115 120 125
217
218 Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile
219 130 135 140
220
221 Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly Pro
222 145 150 155 160
223
224 Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg
225 165 170 175
226
227 Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu
228 180 185 190
229
230 Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu
231 195 200 205
232
233 Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val
234 210 215 220
235
236 Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala Glu Ala Met Ser Gln
237 225 230 235 240
238
239 Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg Gly Asn Phe Arg Asn
240 245 250 255
241
242 Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly Lys Glu Gly His Thr
243 260 265 270
244
245 Ala Arg Lys
246 275
247
248 (2) INFORMATION FOR SEQ ID NO:5:
249
250 (i) SEQUENCE CHARACTERISTICS:
251 (A) LENGTH: 948 base pairs
252 (B) TYPE: nucleic acid
253 (C) STRANDEDNESS: single
254 (D) TOPOLOGY: linear
255
256 (ii) MOLECULE TYPE: cDNA
257
258

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001

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INPUT SET: S36649.raw

Line

Error

Original Text

INPUT SET: S36649.raw

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:28:16

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47 (A) APPLICATION NUMBER: 08/087,009
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96 (B) TYPE: nucleic acid
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98 (D) TOPOLOGY: linear
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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
TIME: 08:28:17

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100 (ii) MOLECULE TYPE: cDNA
 101
 102
 103 (ix) FEATURE:
 104 (A) NAME/KEY: CDS
 105 (B) LOCATION: 20..845
 106
 107
 108 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
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 111 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly
 112 1 5 10
 113
 114 CAA ATG GTA CAT CAG GCC ATA TCA CCT AGA ACT TTA AAT GCA TGG GTA 100
 115 Gln Met Val His Gln Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val
 116 15 20 25
 117
 118 AAA GTA GTA GAA GAG AAG GCT TTC AGC CCA GAA GTG ATA CCC ATG TTT 148
 119 Lys Val Val Glu Glu Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe
 120 30 35 40
 121
 122 TCA GCA TTA TCA GAA GGA GCC ACC CCA CAA GAT TTA AAC ACC ATG CTA 196
 123 Ser Ala Leu Ser Glu Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu
 124 45 50 55
 125
 126 AAC ACA GTG GGG GGA CAT CAA GCA GCC ATG CAA ATG TTA AAA GAG ACC 244
 127 Asn Thr Val Gly Gly His Gln Ala Ala Met Gln Met Leu Lys Glu Thr
 128 60 65 70 75
 129
 130 ATC AAT GAG GAA GCT GCA GAA TGG GAT AGA GTG CAT CCA GTG CAT GCA 292
 131 Ile Asn Glu Glu Ala Ala Glu Trp Asp Arg Val His Pro Val His Ala
 132 80 85 90
 133
 134 GGG CCT ATT GCA CCA GGC CAG ATG AGA GAA CCA AGG GGA AGT GAC ATA 340
 135 Gly Pro Ile Ala Pro Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile
 136 95 100 105
 137
 138 GCA GGA ACT ACT AGT ACC CTT CAG GAA CAA ATA GGA TGG ATG ACA AAT 388
 139 Ala Gly Thr Thr Ser Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn
 140 110 115 120
 141
 142 AAT CCA CCT ATC CCA GTA GGA GAA ATT TAT AAA AGA TGG ATA ATC CTG 436
 143 Asn Pro Pro Ile Pro Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu
 144 125 130 135
 145
 146 GGA TTA AAT AAA ATA GTA AGA ATG TAT AGC CCT ACC AGC ATT CTG GAC 484
 147 Gly Leu Asn Lys Ile Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp
 148 140 145 150 155
 149
 150 ATA AGA CAA GGA CCA AAG GAA CCC TTT AGA GAC TAT GTA GAC CGG TTC 532
 151 Ile Arg Gln Gly Pro Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe
 152 160 165 170

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PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
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153
 154 TAT AAA ACT CTA AGA GCC GAG CAA GCT TCA CAG GAG GTA AAA AAT TGG 580
 155 Tyr Lys Thr Leu Arg Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp
 156 175 180 185
 157
 158 ATG ACA GAA ACC TTG TTG GTC CAA AAT GCG AAC CCA GAT TGT AAG ACT 628
 159 Met Thr Glu Thr Leu Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr
 160 190 195 200
 161
 162 ATT TTA AAA GCA TTG GGA CCA GCG GCT ACA CTA GAA GAA ATG ATG ACA 676
 163 Ile Leu Lys Ala Leu Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr
 164 205 210 215
 165
 166 GCA TGT CAG GGA GTA GGA GGA CCC GGC CAT AAG GCA AGA GTT TTG GCT 724
 167 Ala Cys Gln Gly Val Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala
 168 220 225 230 235
 169
 170 GAA GCA ATG AGC CAA GTA ACA AAT TCA GCT ACC ATA ATG ATG CAG AGA 772
 171 Glu Ala Met Ser Gln Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg
 172 240 245 250
 173
 174 GGC AAT TTT AGG AAC CAA AGA AAG ATT GTT AAG TGT TTC AAT TGT GGC 820
 175 Gly Asn Phe Arg Asn Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly
 176 255 260 265
 177
 178 AAA GAA GGG CAC ACA GCC AGA AAG T 845
 179 Lys Glu Gly His Thr Ala Arg Lys
 180 270 275
 181
 182
 183 (2) INFORMATION FOR SEQ ID NO:4:
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 185 (i) SEQUENCE CHARACTERISTICS:
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 187 (B) TYPE: amino acid
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 192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
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 194 Gln Asn Tyr Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His Gln
 195 1 5 10 15
 196
 197 Ala Ile Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu Glu
 198 20 25 30
 199
 200 Lys Ala Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu
 201 35 40 45
 202
 203 Gly Ala Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly
 204 50 55 60
 205

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PATENT APPLICATION US/09/756,551ADATE: 10/26/2001
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206 His Gln Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala
207 65 70 75 80
208
209 Ala Glu Trp Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala Pro
210 85 90 95
211
212 Gly Gln Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser
213 100 105 110
214
215 Thr Leu Gln Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro
216 115 120 125
217
218 Val Gly Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile
219 130 135 140
220
221 Val Arg Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly Pro
222 145 150 155 160
223
224 Lys Glu Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg
225 165 170 175
226
227 Ala Glu Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu
228 180 185 190
229
230 Leu Val Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu
231 195 200 205
232
233 Gly Pro Ala Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val
234 210 215 220
235
236 Gly Gly Pro Gly His Lys Ala Arg Val Leu Ala Glu Ala Met Ser Gln
237 225 230 235 240
238
239 Val Thr Asn Ser Ala Thr Ile Met Met Gln Arg Gly Asn Phe Arg Asn
240 245 250 255
241
242 Gln Arg Lys Ile Val Lys Cys Phe Asn Cys Gly Lys Glu Gly His Thr
243 260 265 270
244
245 Ala Arg Lys
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PAGE: 1

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PATENT APPLICATION US/09/756,551A

DATE: 10/26/2001

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Line	Error	Original Text
28	Wrong application Serial Number	(A) APPLICATION NUMBER: 08/756,551